

Wednesday, 15 February 1989  
Mercredi, 15 février 1989

Albert I Hall

Session II

INDOOR AIR QUALITY : CHEMISTRY AND BIOLOGICAL EFFECTS  
QUALITÉ DE L'AIR AMBIANT : CHIMIE ET EFFETS BIOLOGIQUES

Chairmen

S.J. Kilpatrick, Jr. & R. Rylander

- 09.00 O27 **Exposure to ets and its biological effects**  
F. Adlkofer, G. Scherer, L. Von Meyerinck, Ch. Von Maltzan & L. Jarczyk (Forschungsgesellschaft Rauchen und Gesundheit mbH, Hamburg, F.R. Germany)
- 09.20 O28 **Carbonyl compounds in mainstream and sidestream cigarette smoke**  
H. Schlitt & H. Knppel (Commission of the European Communities, Joint Research Centre, Environment Institute, Ispra, Italy)
- 09.35 O29 **Nicotine uptake through the airway during passive smoking and its effect on annoyance**  
A. Iwase, H. Saitoh, Y. Doi, M. Aiba, N. Yamauchi, T. Miyara & S. Kira (Department of Respiratory Medicine, Juntendo University, School of Medicine, Hongo, Tokyo, Japan)
- 09.50 P17 **Etude des relations à échelle fine entre pollutions intérieure et extérieure (SO<sub>2</sub>N<sub>0</sub>xparticules) dans un hôpital de la région Parisienne**  
J.C. Lowenstein (Electricité de France, Direction des Etudes et Recherches, Chatou, France)
- 10.05 O31 **Nonsmokers attitude towards indoor air quality**  
S. Shanmuganandan & P. Thirumalaikolundusubramanian\* (Department of Geography, Madurai Kamaraj University & \*Department of Medicine, Madurai Medical College, India).
- 10.20 O32 **Perception of daily cigarette consumption in the office environment**  
D.A. Sterling, D.J. Moschandreas\* & R.D. Gibbons\*\* (Old Dominion University, Norfolk, Virginia, \*IIT Research Institute, Chicago & \*\*University of Illinois, Chicago, Illinois, U.S.A.)  
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- 10.35 **Coffee break/Pause café**

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Session II (cont'd)

INDOOR AIR QUALITY : CHEMISTRY AND BIOLOGICAL EFFECTS  
QUALITÉ DE L'AIR AMBIANT : CHIMIE ET EFFETS BIOLOGIQUES

Chairmen

D. Rondia & M. Mansour

- 11.00 O33 **Accumulation of semi-volatile chemicals in indoor-environment**  
I. Gebefügi & F. Korte (Gesellschaft für Strahlen- und Umweltforschung mbH München, Institut für Ökologische Chemie, Neuherberg & Technical University of Munich, Institute of Chemistry, Chair of Ecological Chemistry, Freising-Weihenstephan, F.R. Germany)
- 11.15 O34 **Role of combustion products in bronchial hyperreactivity - A case control study**  
M. Bert, J. Kühr, A. Hendel-Kramer, R. Urbanek, E. Schultz\*, H. Staiger\* & W. Karmaus\*  
\* (University Children Hospital, Freiburg, \*German Weather Service, Freiburg & \*\*Centre of Science, Berlin, F.R. Germany)
- 11.30 O35 **Use of molecular biologic techniques to study pulmonary fibrosis**  
A. Poole (Smith Kline and French Research Ltd. The Frythe, Welwyn, United Kingdom)
- 11.45 O36 **Glucans as potential inflammatory agents in indoor air**  
R. Rylander, S. Srensen, H. Goto\*, K. Yuasa\* & S. Tanaka (Department of Environmental Hygiene, University of Gothenburg, Sweden & \*Institute of Medical Sciences, Tokyo, Japan)
- 12.00 O37 **The contribution of unvented natural gas combustion to indoor air quality**  
I. Billick (Gas Research Institute, Chicago, U.S.A.)
- 12.15 O38 **An epidemiologic study of the dose-response relationship between BaP concentration in indoor air and lung cancer mortality in Xuan Wei, China**  
Xingzhou He & Wei Chen (Institute of Environmental Health and Engineering Chinese Academy of Preventive Medicine, Beijing, China)
- 12.30 **Lunch break/Pause déjeuner**

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Session III

INDOOR AIR QUALITY : VENTILATION, CLIMATISATION AND POLLUTANTS  
QUALITÉ DE L'AIR AMBIANT : VENTILATION, CLIMATISATION ET POLLUANTS

Chairmen

C. Molina & J.E.H.M. van Bronswijk

- 14.00 O39 Ventilation, health and energy conservation : a workable compromise  
G. Robertson (ACVA Atlantic Inc., Fairfax, VA, USA)
- 14.20 O40 Sick buildings can be controlled through air quality specifications and monitoring  
T. Aström (Västra Frlunda, Sweden)
- 14.35 O42 Aeroallergen species and their indoor/outdoor relationship  
D.A. Sterling & T.H. Stock\* (Old Dominion University, Norfolk & \*University of Texas, Houston, Texas, U.S.A.)
- 14.50 O43 Quelques exemples d'études d'ambiances climatisées  
A. Mouilleseaux, F. Squinazi & B. Festy (Laboratoire d'Hygiène de la Ville de Paris, France)
- 15.05 O45 Residence time of vapour pollutants in the atmosphere  
M. Mansour (Institut für Ökologische Chemie, Freising Attaching, F.R. Germany)
- 15.20 O46 A Czechoslovak survey about ventilation habits in dwellings  
L. Pírsel (Slovak Technical University, Bratislava, Czechoslovakia)
- 15.20-15.50 Discussion
- 15.50 Coffee break/pause café

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Session III (cont'd)

INDOOR AIR QUALITY : VENTILATION, CLIMATISATION AND POLLUTANTS  
QUALITÉ DE L'AIR AMBIANT : VENTILATION, CLIMATISATION ET POLLUANTS

Chairmen

J. Bignon & G. Löfroth

- 16.30 ✓ O47 **Emissions from building materials. The role of additives in PVC-materials**  
K. Saarela, K. Kaustia & A. Kiviranta (Technical Research Centre of Finland, Chemical Laboratory, Espoo, Finland)
- 16.45 ✓ O48 **Influence of indoor air pollution on NO<sub>2</sub> personal exposure levels of school-children**  
Y. Shimizu, S. Imai\* & Y. Tsunetoshi\*\* (Department of Public Health, Saitama Medical College, \*Department of Public Health, Osaka Prefectural Government & \*\*Department of Public Health, Miyazaki Medical College, Japan)
- 17.00 ✓ O49 **Statistical significance of home indoor air fungal spore samples in time and space**  
M. J. Jantunen, A. Nevalainen, A-L. Pasanen\* & P. Kalliokosi\* (National Public Health Institute, Kuopio & \*University of Kuopio, Finland)
- 17.15 ✓ O50 **Indoor Pollution by mineral fibers**  
J. Bignon, G. Dufour\*, P. Brochard & A. Gaudichet\*\* (\*Clinique de Pathologie Respiratoire et Environnement, INSERM 139, Creteil, \*Laboratoire d'Etude des Particules Inhalées, DASES, Paris & \*\*Lamaast, Université Paris XII, Créteil, France)
- 17.30 ✓ O51 **Indoor Air Quality, Housing and Health**  
S. Shanmuganandan & P. Thirumalaikolundusubramanian\* (Department of Geography, Madurai Kamaraj University & \*Department of Medicine, Madurai Medical College, India)
- 17.45 ✓ O52 **The Acarex/Acarosan concept, its possibilities in allergology and dermatology**  
J.E.H.M. van Bronswijk & G. Schober (Interuniversity working group Home and Health, Utrecht State University, Utrecht, The Netherlands)
- 18.00 ✓ O53 **Lutte contre les excréments d'acariens porteurs d'allergènes dans l'air ambiant**  
E. Bischoff (Gesellschaft für Hausbiologische Forschung, Mainz, F.R. Germany)

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Session IV

INDOOR AIR QUALITY : PREVENTION AND FUTURE GUIDELINES  
QUALITÉ DE L'AIR AMBIANT : PREVENTION ET ORIENTATIONS FUTURES

Chairmen  
A.V. Nero Jr. & Cl. Bieva

- ~~09.00~~ O54 **Developing an effective perspective on the risks and control of indoor air pollutants**  
A.V. Nero Jr. (Lawrence Berkeley Laboratory, USA)
- 09.30 ✓ O55 **New concepts of control and prevention in residential design and construction**  
P. Bierman-Lhytle (The Masters Corporation, New Canaan, Connecticut, U.S.A.)
- 09.45 ✓ O56 **Portable air sampler for measurements in aircraft and public buildings**  
J.F. van der Wal (MT-TNO, Delft, The Netherlands)
- 10.00 **Coffee break/Pause café**
- 10.30 ✓ O57 **Demand controlled ventilating systems, new concepts for indoor air quality and energy conservation**  
L. Trepte (Dornier-System, Friedrichshafen, F. R. Germany)
- 10.45/ O58 **A database of problem buildings : learning by past mistakes**  
C.W. Collett, E.M. Sterling, T.D. Sterling\* & J.J. Weinkam\* (Theodor D. Sterling & Associates, Vancouver & \*School of Computing Science, Faculty of Applied Sciences, Simon Fraser University, Burnaby, Canada)
- Pause*  
11.00 O59 ✓ **Programme de traitement en vue de la lutte contre la pollution microbiologique interne occasionnée par les installations de climatisation mal entretenues**  
E. Clement (De Kobra, Opwijk, Belgique)
- 11.15 O60 **Present and future exceedence of health related reference values for air pollutants in dutch dwellings**  
H.J. van de Wiel & E. Lebreit (National Institute of Public Health and Environmental Protection, Bilthoven, The Netherlands)
- 11.30 P25 ✓ **Un analyseur d'oxydes d'azote à l'étude de la pollution intérieure : l'APPI-AC 35**  
B. Millancourt (Electricité de France, Direction des Etudes et Recherches, Chatou, France)
- 11.45 O62 **Les actions françaises de recherche incitative pour la maitrise de la qualité de l'air intérieur des locaux habitables**  
J.P. Marie\* & P.C. Jacquignon (\*Plan Construction et Architecture & Secrétariat d'Etat à l'Environnement, Paris, France)
- 12.00 O63 ✓ **Ventilation system retrofits as a method of solution for the sick building syndrome**  
E.M. Sterling & C.W. Collett (Theodor D. Sterling & Associates, Vancouver, Canada)
- 12.15 **Closing session/Séance de clôture**

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